

Natural venting systems



Fire Design Solutions provides a complete turnkey package for natural smoke ventilation systems. Our integrated service delivers cost effective smoke venting solutions to create safe environments that meet all necessary approvals.

In the event of a fire, natural venting systems open air ways, using natural air flow dynamics to remove smoke, which is arguably the biggest threat to life. This can be attained by opening windows or vents, an automatic opening vent (AOV) or, where there is no external wall, a vertical smoke shaft.



Drawing on decades of specialist fire engineering consultancy experience and our extensive knowledge of building design, our natural venting systems provide a reliable and cost effective method of meeting the requirements of Approved Document B.

In the event of a fire, smoke detectors will activate the natural smoke venting system on that floor. This creates a natural air flow to purge smoke from the building and exhaust to atmosphere, offering a safe means of escape for occupants, with greater visibility and access for fire fighters.

By working closely with our clients, we can provide a complete turnkey package that includes both smoke ventilation and common area detection. Tailored to meet the client's exact requirements, our systems remain sympathetic to the architect's aesthetic vision while offering maximum floor space efficiency and cost savings.

Further benefits can be achieved by integrating environmental cooling measures, reducing common area heat gain through continuous air flow. Our holistic design approach also considers wider factors such as adverse wind conditions to maximise life safety standards.

Backed by our ongoing research and development initiative, we understand the correct fire rating required of every component to maintain the necessary compartmentation within the building. This level of knowledge and rationalised thinking has helped us take natural smoke ventilation to the next level with the introduction of digital systems.

From initial design and manufacture, through installation, to commissioning and ongoing servicing, it is a total solution that offers hassle-free handover, testing and maintenance – as a standalone system or part of an integrated fire safety provision.



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